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TRANSMITTAL FORM

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Application Number	10/033,323	
Filing Date G	5.0 J 200 1 2001	
First Named Inventor	Rueckes, et al.	
Group Art Unit	2818	
_Examiner_Name	Unknown	
Attorney Docket Number	112020.127/NAN-4	

Total Number of Pages in This Submission			Attorney Docket Numb	er	112020.127/NAIN-4	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AUG OF TOOS TOOS

Applicants:

Serial No.:

10/033,323

Examiner: Unknown

Filed:

December 28, 2001

Group Art Unit: 2818

For:

ELECTROMECHANICAL THREE-TRACE JUNCTION DEVICES

Attorney Docket No. 112020.127 / NAN-4

CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8(a)

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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97-98, Applicants bring to the attention of the Examiner the following publications listed on the attached Form PTO-1449.

This submission does not represent that a search has been made or that no better art exists and does not constitute "prior art". Applicants reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed publications, should one or more of the publications be applied against the claims of the present application.

Serial No. 10/033,323 Rueckes, et al. Page 2

Copies of the publications listed on the attached Form PTO-1449 are submitted herewith. It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449 with the next Patent Office communication.

It is Applicants' belief that that this Information Disclosure Statement is being filed prior to the mailing of the first Office Action on the merits and is therefore submitted as both timely and proper; thus, no fees are believed to be due. However, in the event of a fee deficiency, the Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. <u>08-0219</u>.

Respectfully submitted,

Dated: July 28, 2003

Emily R. Whelan

Registration No. 50,391 Attorney for Applicants

Hale and Dorr LLP 60 State Street Boston, Massachusetts 02109

Tel: (617) 526-6567 Fax: (617) 526-5000

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Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

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Docket Number 112020.127/NAN-4 Application Number 10/033,323

Applicant Ruekes, et al.

Filing Date
December 28, 2001

Group Art Unit 2818

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2001/0004979	06/28/01	Han et al.	216	4	78
	2002/0125805	09/12/2002	Hsu	313	309	0 406
	2002/0130353	09/19/02	Lieber et al.	257	315	SP 1
	2002/0160111	10/31/02	Sun et al.	427	248.1	
	2002/0172639	11/12/02	Horiuchi	423	477.2	7>
	2002/0173083	11/21/02	Avouris et al.	438	129	
	2002/0175323	11/28/02	Guillom et al.	257	10	
	2002/0175390	11/28/02	Goldstein et al	257	481	10
	2002/0179434	12/5/02	Dai et al.	204	242	O P A
	5,973,444	10/26/99	Xu et al.	313	309	Z800 PUG Z
	6,128,214	10/3/00	Keukes et al.	365	151	29 29
	6,159,620	12/12/00	Heath et al.	428	615	77
	6,187,823	02/13/01	Haddon et al.	516	32	2103 1 F R
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EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
INITIAL	NUMBER					YES	NO
	WO 01/44796	6/21/01	PCT				
	WO 00/73204	12/07/2000	PCT				
	WO 00/63115	10/26/2000	PCT				

	Other Documents (Including Author, Title, Date Pertinent Pages, Et				
A1	Kong, J., et al., "Chemical Vapor Disposition of Methane for Single-Walled Carbon Nanotubes." Chemical Physics Letters, 292, 567, 1998.				
A2	Li., Y., et al., "Growth of Single-Walled Carbon Nanotubes from Discrete Catalytic Nanoparticles of Various Sizes." The Journal of Physical Chemistry B (2001); 105, 11424.				
АЗ	Dai, Hongjie. "Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices." The Journal of Physical Chemistry B (1999); 103: 11246-11255.				
A4	Colomer, JF., at al., "Characterization of Single-Walled Carbon Nanotubes Produced by CCVD Method." Chemical Physics Letters (2001); 345, 11-17.				
A5	Li, Y. et al., "Preparation of Monodispersed Fe-Mo Nanoparticles as the Catalyst for CVD Synthesis of Carbon Nanotubes." Chem. Mater., 12. 1008, 2001.				
A6	Cassell, A., et al., "Large Scale Synthesis of Single-Walled Carbon Nanotubes." The Journal of				

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OF

Docket Number 112020.127/NAN-4 **Application Number** 10/033,323

Applicant Ruekes, et al.

December 28, 2001

Physical Chemistry B (1999); Vol. 103, No. 22: 6484-6492.

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	6,198,655	03/6/01	Heath et al.	365	151		
	6,232,706	05/15/01	Dai et al.	313	309		
	6,250,984	06/21/01	Jin et al.	445	51		
	6,322,713	11/27/01	Choi et al.	216	38 C		24
	6,350,488	02/26/02	Lee et al.	427	249.1	1062°	J,
	6,407,443	06/18/02	Chen et al	257	616	0 2	11
	6,413,487	07/02/02	Resasco et al.	423	447.3	4×	M
	6,432,740	08/13/02	Chen	438	99	1	
	6,495,116	12/17/02	Herman	423	447.3	ROOM	
	6,515,339	02/04/03	Shin et al.	257	368	03	
	6,518,156	02/11/03	Chen et al	438	597		
	6,566,983	05/20/03	Shin	333	193		
	6,574,130	06/03/03	Segal et al.	365	129		
		For	eign Patent Docun	nents			
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSI	ATION
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	WO 01/03208	1/11/01	PCT				
	EP 1,096,533	95/02/01	Europe				_

 Other Documents (Including Author, Title, Date Pertinent Pages, E				
A7	Cassell, A., et al., "Directed Growth of Free-Standing Single-Walled Carbon Nanotubes." Journal of the American Chemical Society (1999); Vol. 121, 7975-7976.			
A8	Delzeit, L., et al., "Multilayered Metal Catalysts for Controlling the Density of Single-walled Carbon Nanotube Growth." Chemical Physics Letters, 348, 368, 2001.			
A9	Wei, Y., et al., "Effect of Catalyst Film Thickness on Carbon Nanotube Growth by Selective Area Chemical Vapor Deposition." <i>Applied Physics Letters</i> (2001); Vol. 78, pgs. 1394-1396.			
A10	Su., M., et al., "A Scalable CVD Method for the Synthesis of Single-Walled Carbon Nanotubes with High Catalyst Productivity." <i>Chemical Physics Letters</i> (2000); Vol. 322, 231-326.			
A11	Harutyunyan, A., et al., "CVD Synthesis of Single Wall Carbon Nanotubes under 'Soft' Conditions." Nano Letters Vol. 2c no 5 525 (2002); Published on web 3/27/02			
A12	Li, Q., et al., "High-Density Growth of Single-Wall Carbon Nanotubes on Silicon by Fabrication of Nanosized Catalyst Thin Films." Chem. Mater. (2002), 14, 4262; Published on web 9/11/02			

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE IN AN APPLICATION

Docket Number 112020.127/NAN-4 Application Number 10/033,323 al.

Group Art Unit 2818

Applicant Ruekes, et al.

(Use several sheets if necessary)

Filing Date

3 OF 3 Sheet

December 28, 2001

A13 Homma, Y., et al., "Growth of Suspended Carbon Nanotube Networks on 100nm-Scale Silicon Pillars." Applied Physics Letters. (2002); Vol. 81 No. 12, 2261-2263. A14 Oscillators." Nano Letters (2002); Vol. 2 No. 9 929-932. Published on web 7/31/02 A15 Kong. J., et al., "Syntheses of Individual Single-Walled carbon Nanotubes on Patterned Wafers." Nature (1998); 395: 878-881. A16 Chen, B., et al., "Heterogeneous Single-Walled Carbon Nanotubes on Patterned Wafers." Nature (1998); 395: 878-881. A17 Yenilmez, E., et al., "Wafer Scale Production of carbon Nanotube Catalyst Discovery and Optimization." Chem. Mater. (2002); Vol. 14 1891-1896. A17 Yenilmez, E., et al., "Wafer Scale Production of carbon Nanotube Scanning Probe Tips for Atomic Force Microscopy." Applied Physics Letters. (2002); Vol. 80 No. 12, 2225-2227. A18 Peigney, A., et al., "A Study of the Formation of Single-and-Double-Walled carbon Nanotubes by a CVD Method." The Journal of Physical Chemistry B (2001); 105: 9699-9710. A19 Franklin, N., et al., "Integration of Suspended Carbon Nanotube Arrays into Electronic Devices and Electroechanical Systems." Applied Physics Letters (2002); Vol. 81 No. 5, 913-905. A20 Collins, P., et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown." Science (2001); 292: 706-709. A21 Kim, W., et al., "Synthesis of Ultralong and High Percentage of Semiconduction Single-walled Carbon Nanotubes." Nano Letters (2002); Vol. 2 No. 7 703-708. Published on web 6/01/02 A22 Reuckes, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." Science, vol. 289, 94-97, July 7, 2000 A23 Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 - A24 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al., "Chemical Va			
A14 Javey, A., et al., "Carbon Nanotube Transistor Arrays for Multistage Complementary Logic and Ring Oscillators." Nano Letters (2002); Vol. 2 No. 9 929-932. Published on web 7/31/02 Kong, J., et al., "Syntheses of Individual Single-Walled carbon Nanotubes on Patterned Wafers." Nature (1998); 395: 878-881. A16 Chen, B., et al., "Heterogeneous Single-Walled Carbon Nanotube Catalyst Discovery and Optimization." Chem. Mater. (2002); Vol. 14 1891-1896. A17 Yenilmez, E., et al., "Wafer Scale Production of carbon Nanotube Scanning Probe Tips for Atomic Force Microscopy." Applied Physics Letters. (2002); Vol. 80 No. 12, 2225-2227. A18 Peigney, A., et al., "A Study of the Formation of Single-and-Double-Walled carbon Nanotubes by a CVD Method." The Journal of Physical Chemistry B (2001); 105: 9699-9710. A19 Franklin, N., et al., "Integration of Suspended Carbon Nanotube Arrays into Electronic Devices and Electroechanical Systems." Applied Physics Letters (2002); Vol. 81 No. 5, 913-905. A20 Collins, P., et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown." Science (2001); 292: 706-709. A21 Kim, W., et al., "Synthesis of Ultralong and High Percentage of Semiconduction Single-walled Carbon Nanotubes." Nano Letters (2002); Vol. 2 No. 7 703-708. Published on web 6/01/02 A22 Reuckes, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." Science, vol. 289, 94-97, July 7, 2000 A23 Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 A24 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 A26 Huang, et al.,		A13	
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Franklin, N., et al., "Integration of Suspended Carbon Nanotube Arrays into Electronic Devices and Electroechanical Systems." Applied Physics Letters (2002); Vol. 81 No. 5, 913-905. A20 Collins, P., et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown." Science (2001); 292: 706-709. A21 Kim, W., et al., "Synthesis of Ultralong and High Percentage of Semiconduction Single-walled Carbon Nanotubes." Nano Letters (2002); Vol. 2 No. 7 703-708. Published on web 6/01/02 A22 Reuckes, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." Science, vol. 289, 94-97, July 7, 2000 A23 Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 - A24 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 A26 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A18	Peigney, A., et al., "A Study of the Formation of Single-and-Double-Walled carbon Nanotubes by a
Breakdown." Science (2001); 292: 706-709. Kim, W., et al., "Synthesis of Ultralong and High Percentage of Semiconduction Single-walled Carbon Nanotubes." Nano Letters (2002); Vol. 2 No. 7 703-708. Published on web 6/01/02 Reuckes, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." Science, vol. 289, 94-97, July 7, 2000 Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A19	Franklin, N., et al., "Integration of Suspended Carbon Nanotube Arrays into Electronic Devices and
A22 Carbon Nanotubes." Nano Letters (2002); Vol. 2 No. 7 703-708. Published on web 6/01/02 A22 Reuckes, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." Science, vol. 289, 94-97, July 7, 2000 A23 Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 - A24 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 A26 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A20	
Liu, et al., "Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 - A24 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 A26 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A21	
Assembling Technique, Langmuir," April 18, 2000, Vol. 16, No. 8, 3659-3573 Soh, et al., "Integrated Nanotube Circuits: controlled growth and ohmic contacting of single-walled carbon nanotubes", Applied Physics Letters, August 2, 1999, Vol. 75, No. 5, 627-629 Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A22	
Zheng et al, "Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A23	
A25 Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13, 2240-2242 A26 Huang, et al., "Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach", The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.	-	A24	
The Journal of Physical Chemistry B., March 16, 2000, Vol. 104, No. 10, 2193-2196 Chattopadhyay, et al., "Metal-Assisted Organization of Shortened Carbon Nanotubes in Monolayer and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A25	Cubic Mesoporous Silica Films by Soft Lithography", Chemistry of Materials, June 9, 2001, Vol. 13,
A27 and Mulilayer Forest Assemblies", Journal of the American Chemical Society, August 28, 2001, Vol.		A26	
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